

ABSTRACT

A standalone gradient detector system, utilizing a gradient detector with a several photodetectors, is disclosed. A lamp emits light toward a screen. The light strikes the photodetectors on a photodetector array, which communicate the light intensity to a gradient circuit. The gradient circuit compares the intensity values from each photodetector with the intensity value for the photodetector immediately adjacent, and computes a gradient value. The maximum gradient value is displayed using a display device, and the position of the photodetector with the maximum gradient value is indicated by an adjacent light source. The gradient of an automobile headlamp may thus be found easily, assisting in headlamp positioning during headlamp and vehicle manufacture.